

Fecal Coliform Loading Calculations

Hydrologic Soil Group	Land Use Code	Land Use Label 2015	Total Area (acres)	Curve Number CN	No Qmax		Fecal Coliform Loading Coefficient (CFU/100mL)	Qmax = 1.0	
					Runoff Volume (ac-ft)	Fecal Coliform Load (CFU)		Runoff Volume (ac-ft)	Fecal Coliform Load (CFU)
Residential									
A	1110	RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING	0.3054	77	1.302	1.24E+11	7750	1.006	9.61E+10
B	1110	RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING	17.5745	85	76.162	7.28E+12	7750	57.864	5.53E+12
C	1110	RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING	28.3808	90	124.302	1.19E+13	7750	93.444	8.93E+12
D	1110	RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING	13.1267	92	57.740	5.52E+12	7750	43.220	4.13E+12
A	1120	RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY	35.2112	61	145.588	1.39E+13	7750	115.933	1.11E+13
B	1120	RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY	266.3042	75	1130.764	1.08E+14	7750	876.806	8.38E+13
C	1120	RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY	197.0374	83	850.347	8.13E+13	7750	648.746	6.20E+13
D	1120	RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY	61.3218	87	266.868	2.55E+13	7750	201.902	1.93E+13
A	1130	RESIDENTIAL, SINGLE UNIT, LOW DENSITY	141.1119	54	576.372	5.51E+13	7750	464.611	4.44E+13
B	1130	RESIDENTIAL, SINGLE UNIT, LOW DENSITY	167.0240	70	702.300	6.71E+13	7750	549.927	5.26E+13
C	1130	RESIDENTIAL, SINGLE UNIT, LOW DENSITY	74.5025	80	319.550	3.05E+13	7750	245.299	2.34E+13
D	1130	RESIDENTIAL, SINGLE UNIT, LOW DENSITY	22.2437	85	96.397	9.22E+12	7750	73.237	7.00E+12
A	1140	RESIDENTIAL, RURAL, SINGLE UNIT	17.3442	51	70.492	6.74E+12	7750	57.106	5.46E+12
B	1140	RESIDENTIAL, RURAL, SINGLE UNIT	32.9215	68	137.899	1.32E+13	7750	108.394	1.04E+13
C	1140	RESIDENTIAL, RURAL, SINGLE UNIT	18.0744	79	77.366	7.40E+12	7750	59.510	5.69E+12
D	1140	RESIDENTIAL, RURAL, SINGLE UNIT	8.2100	84	35.505	3.39E+12	7750	27.032	2.58E+12
Subtotal:			1,100.7		4,669.0	4.46E+14	7750	3,624.0	3.46E+14
Commercial									
B	1200	COMMERCIAL/SERVICES	27.9919	92	123.127	6.83E+12	4500	92.163	5.12E+12
C	1200	COMMERCIAL/SERVICES	26.9357	94	118.996	6.61E+12	4500	88.686	4.92E+12
D	1200	COMMERCIAL/SERVICES	15.3699	95	68.049	3.78E+12	4500	50.605	2.81E+12
Subtotal:			70.3		310.2	1.72E+13	4500	231.5	1.28E+13
Industrial									
A	1300	INDUSTRIAL	0.0173	81	0.074	2.30E+09	2500	0.057	1.76E+09
C	1300	INDUSTRIAL	0.4314	91	1.894	5.84E+10	2500	1.421	4.38E+10
D	1300	INDUSTRIAL	0.7728	93	3.407	1.05E+11	2500	2.544	7.85E+10
Subtotal:			1.2		5.4	1.66E+11	2500	4.0	1.24E+11
Agricultural									
A	2100	CROPLAND AND PASTURELAND	7.1927	65	29.958	3.70E+12	10000	23.682	2.92E+12
B	2100	CROPLAND AND PASTURELAND	0.0842	75	0.358	4.41E+10	10000	0.277	3.42E+10
C	2100	CROPLAND AND PASTURELAND	23.9696	82	103.231	1.27E+13	10000	78.920	9.73E+12
D	2100	CROPLAND AND PASTURELAND	1.1634	85	5.042	6.22E+11	10000	3.830	4.72E+11
A	2400	OTHER AGRICULTURE	1.0828	89	4.732	5.84E+11	10000	3.565	4.40E+11
B	2400	OTHER AGRICULTURE	2.9958	92	13.178	1.63E+12	10000	9.864	1.22E+12
C	2400	OTHER AGRICULTURE	3.0559	94	13.501	1.67E+12	10000	10.062	1.24E+12
D	2400	OTHER AGRICULTURE	0.0070	95	0.031	3.81E+09	10000	0.023	2.83E+09
Subtotal:			39.6		170.0	2.10E+13	10000	130.2	1.61E+13
Other Land Uses:									
B	1400	TRANSPORTATION/COMMUNICATION/UTILITIES	1.2412	92	5.460	2.09E+11	3100	4.087	1.56E+11
C	1400	TRANSPORTATION/COMMUNICATION/UTILITIES	6.6298	94	29.289	1.12E+12	3100	21.829	8.35E+11
D	1400	TRANSPORTATION/COMMUNICATION/UTILITIES	2.0714	95	9.171	3.51E+11	3100	6.820	2.61E+11
C	1461	WETLAND RIGHTS-OF-WAY	0.4217	74	1.787	6.83E+10	3100	1.388	5.31E+10
D	1461	WETLAND RIGHTS-OF-WAY	3.4458	80	14.780	5.65E+11	3100	11.345	4.34E+11
A	1463	UPLAND RIGHTS-OF-WAY UNDEVELOPED	11.0618	39	44.180	1.69E+12	3100	36.003	1.38E+12
B	1463	UPLAND RIGHTS-OF-WAY UNDEVELOPED	12.8644	61	53.191	2.03E+12	3100	42.356	1.62E+12
C	1463	UPLAND RIGHTS-OF-WAY UNDEVELOPED	21.0351	74	89.141	3.41E+12	3100	69.258	2.65E+12
D	1463	UPLAND RIGHTS-OF-WAY UNDEVELOPED	4.7538	80	20.389	7.80E+11	3100	15.652	5.98E+11

Fecal Coliform Loading Calculations

A	1499	STORMWATER BASIN	0.2661	39	1.063	4.06E+10	3100	0.866	3.31E+10
B	1499	STORMWATER BASIN	5.8255	61	24.087	9.21E+11	3100	19.180	7.33E+11
C	1499	STORMWATER BASIN	4.2948	74	18.200	6.96E+11	3100	14.141	5.41E+11
D	1499	STORMWATER BASIN	6.1405	80	26.337	1.01E+12	3100	20.217	7.73E+11
A	1700	OTHER URBAN OR BUILT-UP LAND	0.6855	49	2.777	1.06E+11	3100	2.257	8.63E+10
B	1700	OTHER URBAN OR BUILT-UP LAND	4.7135	69	19.781	7.56E+11	3100	15.519	5.93E+11
C	1700	OTHER URBAN OR BUILT-UP LAND	13.8717	79	59.376	2.27E+12	3100	45.673	1.75E+12
D	1700	OTHER URBAN OR BUILT-UP LAND	6.8099	84	29.450	1.13E+12	3100	22.422	8.57E+11
B	1800	RECREATIONAL LAND	3.8882	61	16.077	1.54E+12	7750	12.802	1.22E+12
C	1800	RECREATIONAL LAND	38.5152	74	163.217	1.56E+13	7750	126.811	1.21E+13
D	1800	RECREATIONAL LAND	9.6839	80	41.535	3.97E+12	7750	31.884	3.05E+12
C	1804	ATHLETIC FIELDS (SCHOOLS)	0.2005	79	0.858	8.20E+10	7750	0.660	6.31E+10
D	1804	ATHLETIC FIELDS (SCHOOLS)	0.2064	84	0.893	8.53E+10	7750	0.680	6.50E+10
C	1850	MANAGED WETLAND IN BUILT-UP MAINTAINED REC AREA	1.9210	74	8.141	3.11E+11	3100	6.325	2.42E+11
A	4110	DECIDUOUS FOREST (10-50% CROWN CLOSURE)	4.2096	32	16.686	6.38E+11	3100	13.575	5.19E+11
B	4110	DECIDUOUS FOREST (10-50% CROWN CLOSURE)	5.7302	58	23.567	9.01E+11	3100	18.867	7.21E+11
C	4110	DECIDUOUS FOREST (10-50% CROWN CLOSURE)	7.9259	72	33.456	1.28E+12	3100	26.096	9.98E+11
D	4110	DECIDUOUS FOREST (10-50% CROWN CLOSURE)	8.3334	79	35.670	1.36E+12	3100	27.438	1.05E+12
A	4120	DECIDUOUS FOREST (>50% CROWN CLOSURE)	103.0493	30	407.834	1.56E+13	3100	331.664	1.27E+13
B	4120	DECIDUOUS FOREST (>50% CROWN CLOSURE)	339.4664	55	1388.898	5.31E+13	3100	1117.693	4.27E+13
C	4120	DECIDUOUS FOREST (>50% CROWN CLOSURE)	307.4094	70	1292.590	4.94E+13	3100	1012.145	3.87E+13
D	4120	DECIDUOUS FOREST (>50% CROWN CLOSURE)	179.9710	77	767.241	2.93E+13	3100	592.554	2.27E+13
A	4210	CONIFEROUS FOREST (10-50% CROWN CLOSURE)	1.8615	32	7.379	2.82E+11	3100	6.003	2.30E+11
C	4210	CONIFEROUS FOREST (10-50% CROWN CLOSURE)	0.6999	72	2.955	1.13E+11	3100	2.305	8.81E+10
A	4220	CONIFEROUS FOREST (>50% CROWN CLOSURE)	2.6186	30	10.363	3.96E+11	3100	8.428	3.22E+11
C	4220	CONIFEROUS FOREST (>50% CROWN CLOSURE)	0.0049	70	0.021	7.87E+08	3100	0.016	6.16E+08
A	4321	MIXED FOREST (>50% DECIDUOUS WITH 10-50% CROWN CLOSURE)	1.9827	32	7.859	3.01E+11	3100	6.394	2.44E+11
B	4322	MIXED FOREST (>50% DECIDUOUS WITH >50% CROWN CLOSURE)	1.4253	55	5.831	2.23E+11	3100	4.693	1.79E+11
D	4322	MIXED FOREST (>50% DECIDUOUS WITH >50% CROWN CLOSURE)	0.2321	77	0.990	3.78E+10	3100	0.764	2.92E+10
A	4410	OLD FIELD (< 25% BRUSH COVERED)	0.6315	39	2.522	9.64E+10	3100	2.055	7.86E+10
B	4410	OLD FIELD (< 25% BRUSH COVERED)	1.0684	61	4.417	1.69E+11	3100	3.518	1.35E+11
C	4410	OLD FIELD (< 25% BRUSH COVERED)	3.8915	74	16.491	6.31E+11	3100	12.813	4.90E+11
D	4410	OLD FIELD (< 25% BRUSH COVERED)	4.6253	80	19.839	7.59E+11	3100	15.229	5.82E+11
A	4420	DECIDUOUS BRUSH/SHRUBLAND	3.7218	30	14.730	5.63E+11	3100	11.979	4.58E+11
B	4420	DECIDUOUS BRUSH/SHRUBLAND	1.3820	48	5.590	2.14E+11	3100	4.550	1.74E+11
C	4420	DECIDUOUS BRUSH/SHRUBLAND	2.7231	65	11.342	4.34E+11	3100	8.966	3.43E+11
A	6210	DECIDUOUS WOODED WETLANDS	4.3493	30	17.213	6.58E+11	3100	13.998	5.35E+11
B	6210	DECIDUOUS WOODED WETLANDS	9.2861	55	37.993	1.45E+12	3100	30.574	1.17E+12
C	6210	DECIDUOUS WOODED WETLANDS	35.6048	70	149.710	5.72E+12	3100	117.229	4.48E+12
D	6210	DECIDUOUS WOODED WETLANDS	249.5072	77	1063.683	4.07E+13	3100	821.502	3.14E+13
B	6231	DECIDUOUS SCRUB/SHRUB WETLANDS	2.1429	48	8.668	3.31E+11	3100	7.055	2.70E+11
C	6231	DECIDUOUS SCRUB/SHRUB WETLANDS	0.0000	65	0.000	0.00E+00	3100	0.000	0.00E+00
D	6231	DECIDUOUS SCRUB/SHRUB WETLANDS	136.2391	73	576.209	2.20E+13	3100	448.567	1.72E+13
B/D	6234	MIXED SCRUB/SHRUB WETLANDS (CONIFEROUS DOM.)	1.3046	73	5.518	2.11E+11	3100	4.295	1.64E+11
C	6234	MIXED SCRUB/SHRUB WETLANDS (CONIFEROUS DOM.)	0.2270	65	0.945	3.61E+10	3100	0.747	2.86E+10
B	6240	HERBACEOUS WETLANDS	0.0305	58	0.125	4.79E+09	3100	0.100	3.84E+09
D	6240	HERBACEOUS WETLANDS	5.2503	78	22.428	8.58E+11	3100	17.287	6.61E+11
B	7500	TRANSITIONAL AREAS	5.2439	79	22.446	8.58E+11	3100	17.266	6.60E+11
C	7500	TRANSITIONAL AREAS	10.0146	86	43.491	1.66E+12	3100	32.973	1.26E+12
D	7500	TRANSITIONAL AREAS	4.0228	89	17.581	6.72E+11	3100	13.245	5.06E+11
Subtotal:			1,606.7		6,721.5	2.70E+14	3100	5,280.8	2.12E+14